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L2: Entry 45 of 64 File: DWPI Aug 13, 1993

DERWENT-ACC-NO: 1993-291122
DERWENT-WEEK: 200201

TITLE: Lithium secondary battery has anode active material containing predetermined chemical compound provided with hexagonal crystal structure

PATENT-ASSIGNEE:

ASSIGNEE	CODE
MATSUSHITA ELEC IND CO LTD	MATU

PRIORITY-DATA: 1992JP-0010670 (January 24, 1992)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	JP 05205741 A	August 13, 1993		009	H01M004/58
☐	JP 3082388 B2	August 28, 2000		009	H01M004/58

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 05205741A	January 24, 1992	1992JP-0010670	
JP 3082388B2	January 24, 1992	1992JP-0010670	
JP 3082388B2		JP 5205741	Previous Publ.

INT-CL (IPC): H01 M 4/02; H01 M 4/58; H01 M 10/40

ABSTRACTED-PUB-NO: JP 3082388B
BASIC-ABSTRACT:

NOVELTY - Anode (1) and a cathode (2) are made to contact a lithium ionic conductive electrolyte (4). The positive electrode

h e b b g e e e f c e h e ge e ge cc c

contains an active material formed by mixing lithium peroxide with cobalt oxide. The mixture is heat treated at 800 deg. C or less and cooled rapidly to obtain LiCoO2 with hexagonal crystal structure.

USE - Lithium secondary battery e.g. lithium cell.

ADVANTAGE - Improves charging and discharging efficiency.

DESCRIPTION OF DRAWING(S) - The drawing shows the sectional view of lithium cell.

anode 1

cathode 2

lithium ionic conductive electrolyte 4

ABSTRACTED-PUB-NO:

JP 05205741A

EQUIVALENT-ABSTRACTS:

NOVELTY - Anode (1) and a cathode (2) are made to contact a lithium ionic conductive electrolyte (4). The positive electrode contains an active material formed by mixing lithium peroxide with cobalt oxide. The mixture is heat treated at 800 deg. C or less and cooled rapidly to obtain LiCoO2 with hexagonal crystal structure.

USE - Lithium secondary battery e.g. lithium cell.

ADVANTAGE - Improves charging and discharging efficiency.

DESCRIPTION OF DRAWING(S) - The drawing shows the sectional view of lithium cell.

anode 1

cathode 2

lithium ionic conductive electrolyte 4

CHOSEN-DRAWING: Dwg.2/7 Dwg.2/7

TITLE-TERMS: LITHIUM SECONDARY BATTERY ANODE ACTIVE MATERIAL CONTAIN PREDETERMINED CHEMICAL COMPOUND HEXAGON CRYSTAL STRUCTURE

DERWENT-CLASS: L03 X16

CPI-CODES: L03-E01B5;

EPI-CODES: X16-B01F1; X16-E01C1;

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SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C2001-193442
Non-CPI Secondary Accession Numbers: N2001-489966

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L2: Entry 38 of 64 File: DWPI Dec 3, 1996

DERWENT-ACC-NO: 1997-072989
DERWENT-WEEK: 199707

TITLE: Lithium cpd. oxide - used as active material for anode(s) of lithium sec. batteries

PATENT-ASSIGNEE:

ASSIGNEE	CODE
NIPPON CHEM IND CO LTD	NIPC

PRIORITY-DATA: 1995JP-0144143 (May 19, 1995)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	JP 08319120 A	December 3, 1996		013	C01G053/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 08319120A	May 19, 1995	1995JP-0144143	

INT-CL (IPC): C01 G 53/00; H01 M 4/02; H01 M 4/58; H01 M 10/40

ABSTRACTED-PUB-NO: JP 08319120A
BASIC-ABSTRACT:

Cpd. oxide of lithium of formula LixNi1-yMeyO2 (I) has lithium content at the 3a site measured by x-ray diffraction of at least 90% and the purity of the above cpd. oxide of lithium belonging to a hexagonal layered cpd. (space gp. R-3m) is at leas least 90% (where Me = transition metal except 0 < x < 1.1, and, 0 < y < 0.6).

USE - The cpd. oxide of lithium is used as an active material for the anodes of lithium sec. batteries.

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ADVANTAGE - When used as an active substance for the positive electrodes of lithium secondary batteries, the cpd. oxide of lithium provides high energy density with high discharge capacity and retention.

CHOSEN-DRAWING: Dwg.0/10

TITLE-TERMS: LITHIUM COMPOUND OXIDE ACTIVE MATERIAL ANODE LITHIUM SEC BATTERY

DERWENT-CLASS: E31 L03 X16

CPI-CODES: E33-G; L03-E01B5;

EPI-CODES: X16-B01F1; X16-E01C1;

CHEMICAL-CODES:

Chemical Indexing M3 *01*
Fragmentation Code
A103 A428 A940 C108 C550 C730 C800 C801 C802 C803
C804 C805 M411 M417 M781 M903 M904 Q454 R043
Markush Compounds
199707-C1701-U

Chemical Indexing M3 *02*
Fragmentation Code
A103 A400 A428 A500 A600 A940 C108 C550 C730 C800
C801 C802 C803 C804 C805 M411 M417 M781 M903 M904
Q454 R043
Markush Compounds
199707-C1702-U

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1997-023466
Non-CPI Secondary Accession Numbers: N1997-060613